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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 09/496.421 02/02/00 1WASAKI 13 24705/99 **EXAMINER** MM91/0829 McGinn and Gibb PC LEE.E Suite 100 **ART UNIT** PAPER NUMBER 1701 Clarendon Boulevard Arlington VA 22209 2815 DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

08/29/01

Office Action Summary		ication No.	Applicant(s)
		96,421	IWASAKI, RITSUKO
		niner	Art Unit
		ne Lee	2815
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment: See 37 CFR 1.704(b).  Status			
1) Responsive to communication(	s) filed on <u>02 Februa</u>	ry 2000 .	
2a) ☐ This action is FINAL.	2b)⊠ This actio	on is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-12</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or election requirement.			
Application Papers			
9) The specification is objected to by the Examiner.			
10)⊠ The drawing(s) filed on <u>02 February 2000</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.			
12) The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. §§ 119 and 120			
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:			
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).			
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>			
Attachment(s)			
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Revie     Information Disclosure Statement(s) (PTO-144)	w (PTO-948) 9) Paper No(s)		y (PTO-413) Paper No(s) : Patent Application (PTO-152)

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#### **DETAILED ACTION**

## **Drawings**

- 1. Figs. 6-8 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: I31a, I32a, I31b, and I32b. See page 9, line 2. Correction is required.
- 3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "1" has been used to designate both "gate" and "source diffusion region". See page 7, line 1 and page 8, line 1. Correction is required.

## Claim Objections

4. Claim 1 is objected to because of the following informalities: on line 8, the word "drains" should be "drain". Appropriate correction is required.

#### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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6. Claims 1 thru 3 are rejected under 35 U.S.C. 102(e) as being anticipated by Hansch et al. '741 B1. Hansch discloses (see, for example, FIG. 5 and FIG. 3A-3B) a semiconductor device comprising test devices 502-524 wherein each test device comprises a source, drain, gate line and a pair of dummy gate lines.

### Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 4 thru 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hansch et al. '741 B1 as applied to claims 1 thru 3 above, and further in view of Ham '595. Regarding claim 4, Hansch does not disclose said first and second gate being respectively three forked. However Ham shows (see, for example, FIG. 1) a NMOS transistor having a ladder structure where several gate branches G extend from a main line of a gate pattern 1. It was well in the art at the time of invention to implement this ladder structure so that one could accommodate a greater number of transistors in a minimum amount of space. Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to use a ladder structure of Ham in Hansch for the reason cited above.

Regarding claims 5-12, Hansch does not disclose electrodes or contact holes. However, it was well known in the art at the time of invention to include electrodes above diffusion regions (i.e. source, drain) and contact holes therein in order to apply a predetermined voltage. Therefore

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it would have been obvious to one of ordinary skill in the art at the time of invention to include the electrodes and contact holes of Ham into Hansch's invention in order to apply voltages to the source and drain.

#### INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Lee whose telephone number is 703-305-5695. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on 703-308-1690. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Eugene Lee August 22, 2001

EDDIE LEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800